# FIG. 1

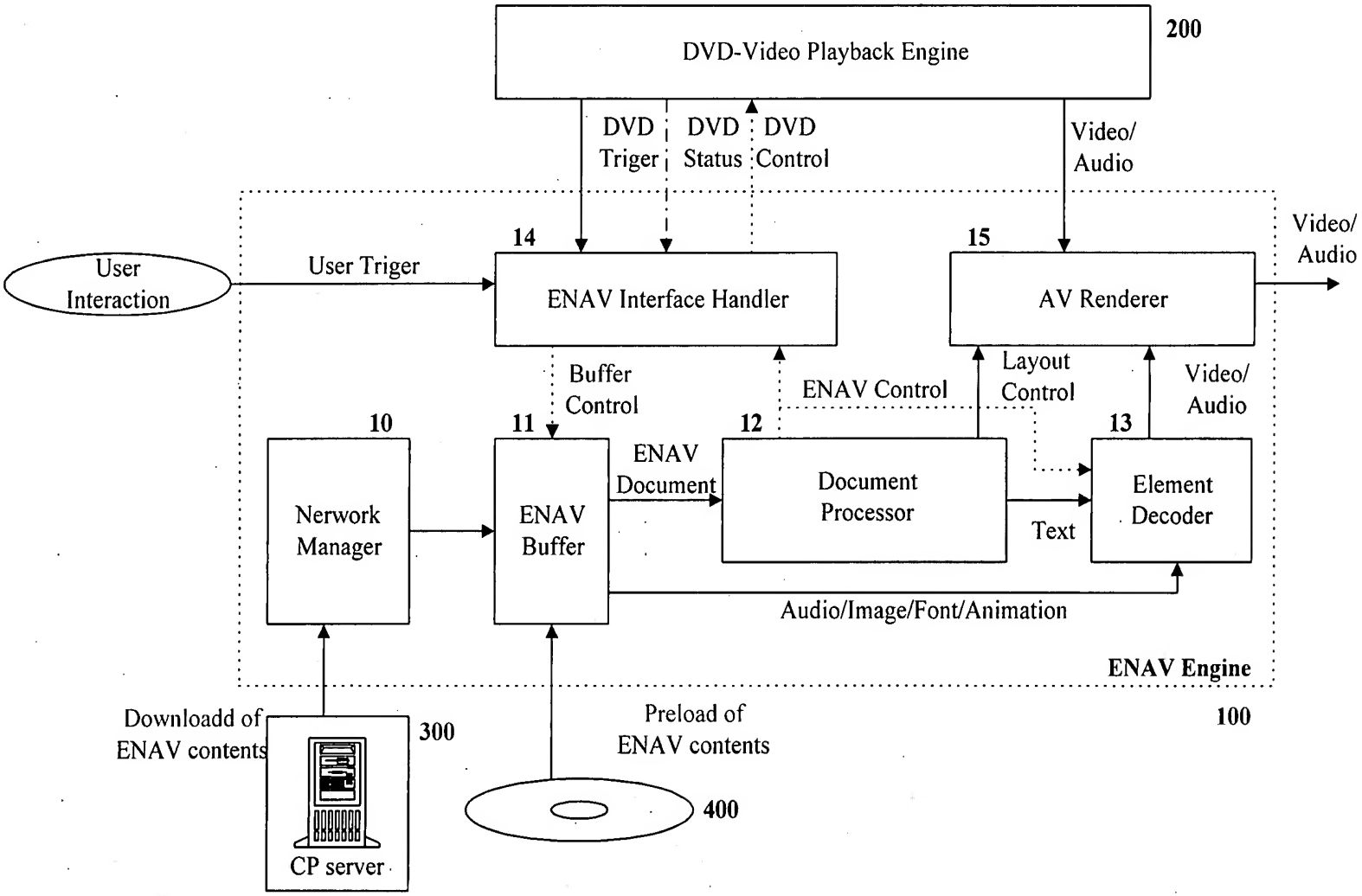
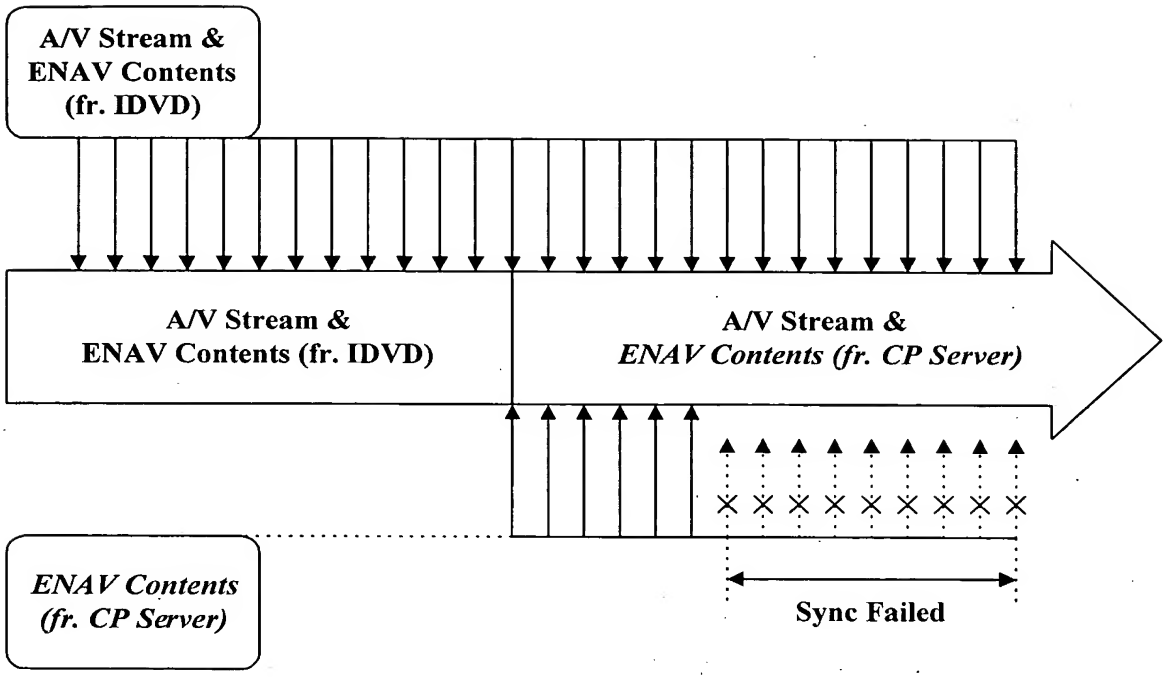

DVD-Video Playback Engine
200
DVD Triger
DVD Status
DVD Control
Video/ Audio
User Interaction
User Triger
14
ENAV Interface Handler
15
AV Renderer
Video/ Audio
Buffer Control
ENAV Control
Layout Control
Video/ Audio
10
11
12
13
Nerwork Manager
ENAV Buffer
ENAV Document
Document Processor
Element Decoder
Text
Audio/Image/Font/Animation
ENAV Engine
100
Downloadd of ENAV contents
300
Preload of ENAV contents
400
CP server

FIG. 2


A/V Stream &
ENAV Contents
(fr. IDVD)
A/V Stream &
ENAV Contents (fr. IDVD)
A/V Stream &
ENAV Contents (fr. CP Server)
ENAV Contents
(fr. CP Server)
Sync Failed

# FIG. 3

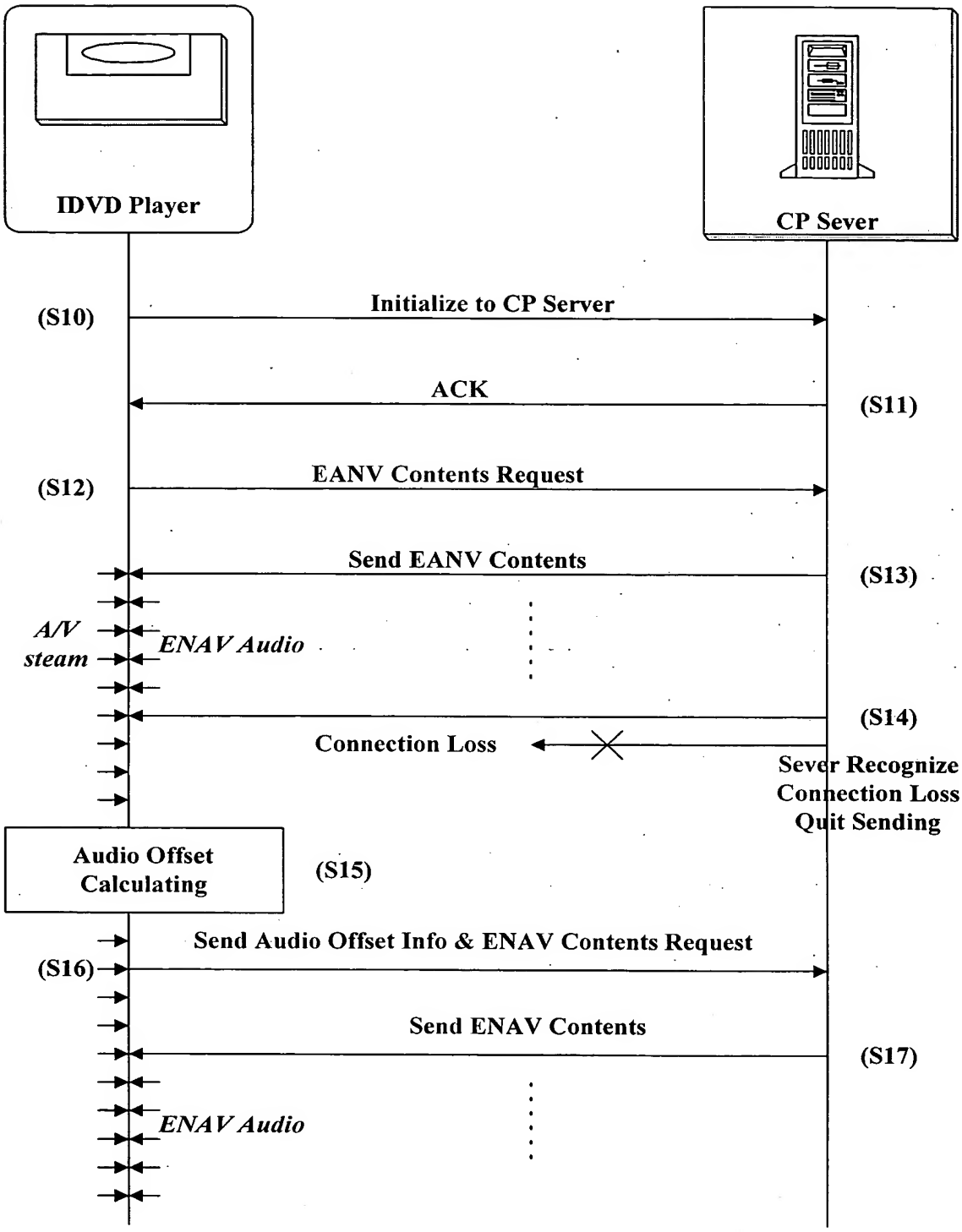
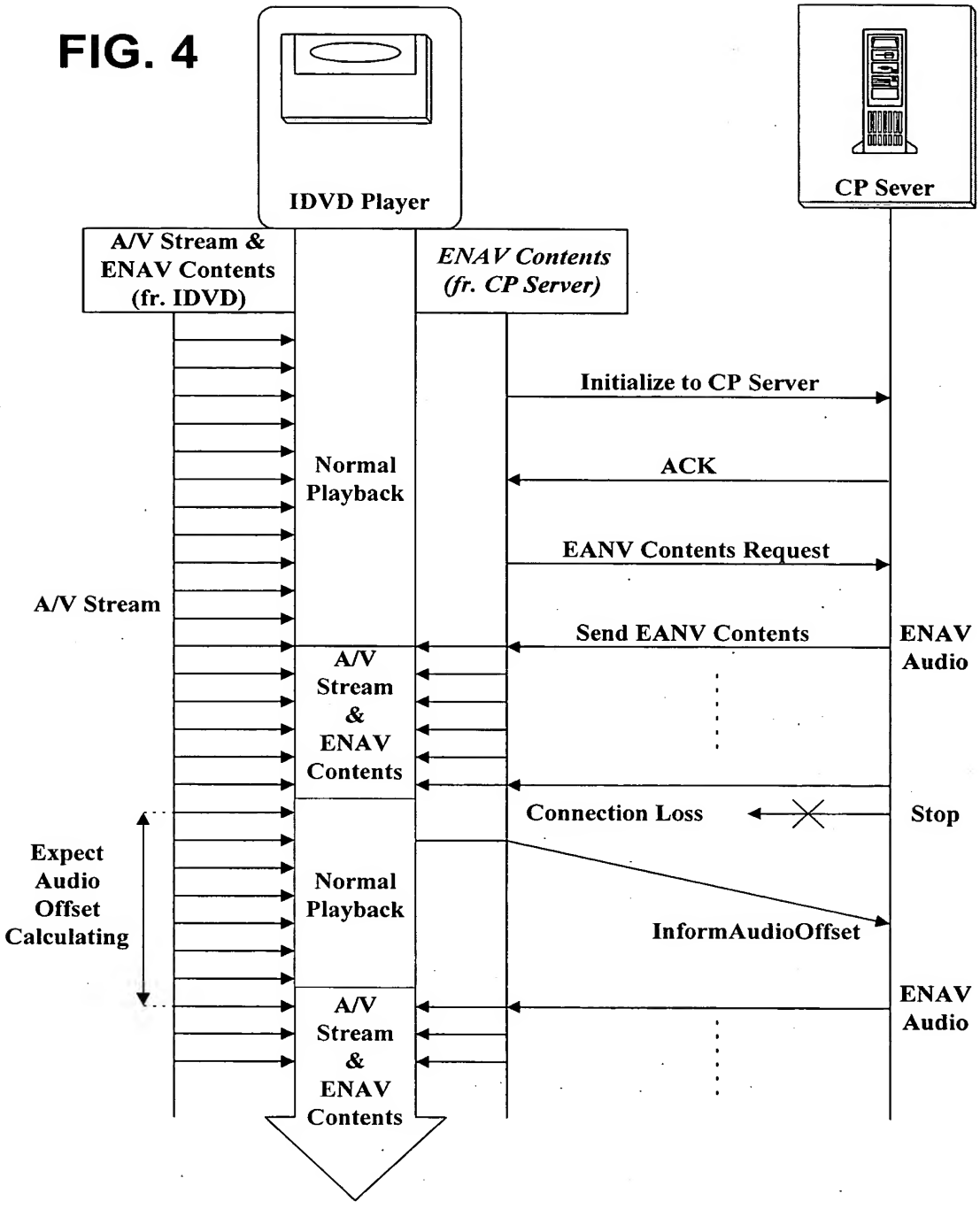
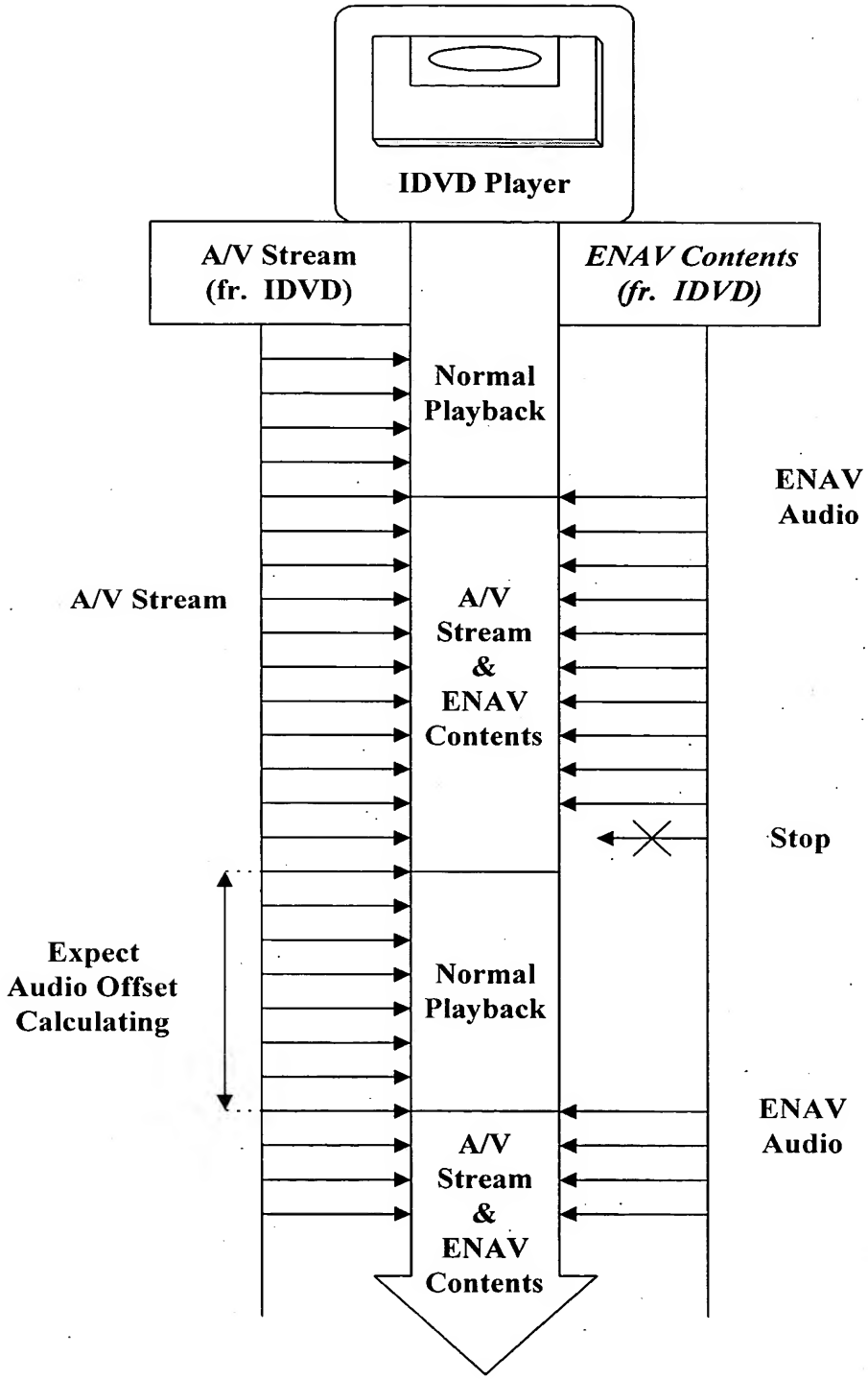

IDVD Player
CP Sever
(S10)
Initialize to CP Server
ACK
(S11)
(S12)
EANV Contents Request
Send EANV Contents
(S13)
A/V steam
ENAV Audio
(S14)
Connection Loss
Sever Recognize Connection Loss Quit Sending
Audio Offset Calculating
(S15)
Send Audio Offset Info & ENAV Contents Request
(S16)
Send ENAV Contents
(S17)
ENAV Audio

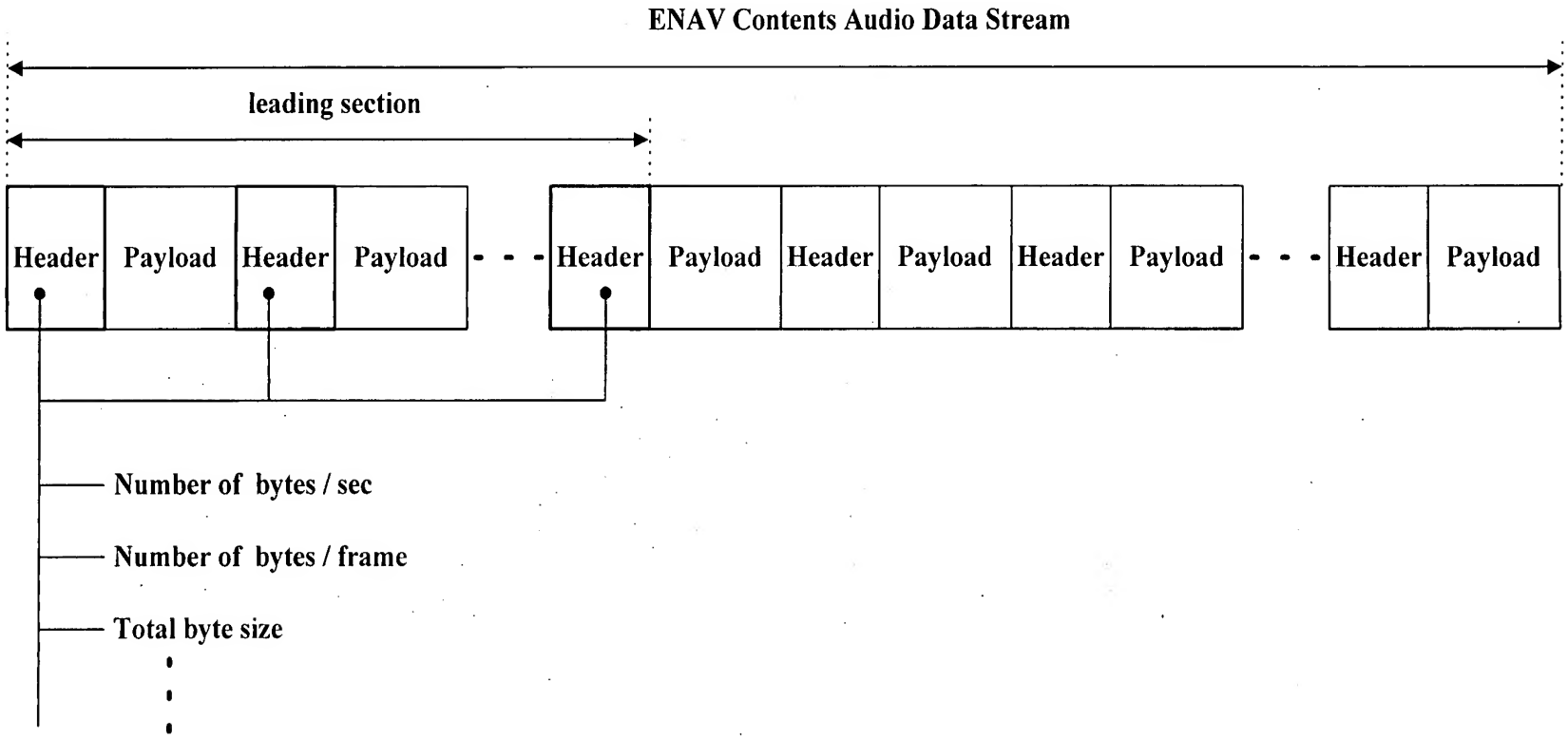
FIG. 4


IDVD Player
CP Sever
A/V Stream & ENAV Contents (fr. IDVD)
ENAV Contents (fr. CP Server)
Initialize to CP Server
ACK
Normal Playback
EANV Contents Request
A/V Stream
Send EANV Contents
ENAV Audio
A/V Stream & ENAV Contents
Connection Loss
Stop
Expect Audio Offset Calculating
Normal Playback
InformAudioOffset
ENAV Audio
A/V Stream & ENAV Contents

# FIG. 5


IDVD Player
A/V Stream (fr. IDVD)
ENAV Contents (fr. IDVD)
Normal Playback
ENAV Audio
A/V Stream
A/V Stream & ENAV Contents
Stop
Expect Audio Offset Calculating
Normal Playback
ENAV Audio
A/V Stream & ENAV Contents

# FIG. 6


ENAV Contents Audio Data Stream
leading section
Header
Payload
Header
Payload
Header
Payload
Header
Payload
Header
Payload
Header
Payload
Header
Payload
Number of bytes / sec
Number of bytes / frame
Total byte size